AES/EPA -019

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January 15, 2017

Chief, Multimedia Permits and Compliance Branch
Caribbean Environmental Protection Division
U.S. Environmental Protection Agency, Region 2
City View Plaza II, Suite 7000
48 RD. 165 Km. 1.2
Guaynabo, Puerto Rico 00968-8069

RE: Administrative Order on Consent Docket Number CWA-02-2015-3102 – Compliance with AOC Section VII, ¶77 8th Quarterly Progress Report

Dear Jose:

On March 18, 2015 AES Puerto Rico LP ("AES-PR") and the United States Environmental Protection Agency ("EPA") entered into the above referenced Administrative Order on Consent ("AOC"), under which AES-PR is obligated to comply with certain requirements (AOC Section VII, Ordered Provisions). All capitalized terms in this letter shall have the meaning as defined in the AOC.

Under AOC Section VII ¶77, Until Termination of this Order, Respondent shall prepare and submit Quarterly Progress Reports (QPR) that describe the current status and progress of Respondent's actions taken to comply with the provisions of this Order.

In compliance with the new AOC requirement, AES-PR hereby submits the required QPR for Q-4 2016 as an attachment to this letter.

We respectfully ask EPA to advise AES-PR promptly, should the agency have any concerns with this submission. Should AES-PR not receive any timely comments from EPA, we will reasonably consider that EPA has agreed that AES-PR has satisfied this requirement of AOC Section VII, ¶77 in full. Should EPA require additional time to review and provide comments back to AES-PR, that review time is of course entirely beyond the control of AES-PR and should be added to the required time frame for AES-PR to comply with this requirement.

Regards,

Manuel Mata
President AES Puerto Rico
Attachments

Administrative Order on Consent
AES Puerto Rico Coal Fired Power Plant
Docket Number CWA-02-2015-3102
NPDES Tracking Number PRU020663

Certification

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Manuel Mata
President AES Puerto Rico

January 16/2017
Date

AES
Puerto Rico

Quarterly Progress Report (QPR) No. 8

Administrative Compliance Order
AES-PR Coal Fired Power Plant
Docket Number CWA-02-2015-3102

January 13, 2017

AES Puerto Rico, LP (AES-PR) is hereby submitting to the United States Environmental Protection Agency (USEPA) this Quarterly Progress Report (QPR) in accordance with Provision 77 of the Administrative Compliance Order (ACO), Docket Number CWA-02-2015-3102.

Milestones and Activities

This reporting period covers the actions taken from **October 1, 2016** to **December 31, 2016**. During this reporting period AES-PR completed a number of actions towards meeting the Provisions of this ACO, including:

1- **<u>Ordered Provision 68</u> - Upon the Effective Date of this Order and for a period of one year, Respondent shall conduct benchmark monitoring and analyze samples according to Part 6.1.3 (measurable storm event), Part 6.1.4 (sample type), Part 6.1.5 (adverse weather condition), Part 6.1.7 (monitoring periods), Part 6.2.1.1 (applicability of benchmark monitoring), Part 6.2.1.2 (benchmark monitoring schedule), Part 8.O.7 (sector-specific benchmark for steam electric power generating facilities) and Part 8.Q.6 (sector-specific for water transportation) of the MSGP. Also, Respondent shall:**

a. monitor at least once at the permanent sampling points 001, 002, and 003 (SP-001, SP-002, and SP-003, respectively) in each of the following 3-month intervals: January 1 – March 31; April 1 – June 30; July 1 – September 30; and October 1 – December 31;

b. analyze the samples for total aluminum, total iron, total lead and total zinc;

c. document monitoring activities and laboratory reports for each sampling point; and

d. prepare MDMR forms within thirty (30) days of receiving the laboratory results. Respondent shall use the MDMR available at the EPA's web site at http://water.epa.gov/polwaste/npdes/stormwater/.

AES-PR personnel monitored permanent sampling points 001, 002, and 003 during **October 1 – December 31, 2016**. Samples were analyzed for total aluminum, total iron, total lead and total zinc. Discharge monitoring reports for sampling points are showed in **Attachment 1**.

Attachment 2 shows the summary of benchmark monitoring results for the three storm water outfalls during the fourth quarter of 2016. The results for sampling points 002 and 003 showed values lower than benchmark during this period. This means that no BMP modifications were necessary at the corresponding drainage areas because in-place controls appear to be effective.

Monitoring results from sampling point #001 located at the dock area, showed aluminum and zinc values slightly above benchmark. As a corrective action, the storm water piping collection system was inspected and cleaned. Felt filter bags were also installed in all storm water inlets located at the dock area. Filtration felt is a low cost disposable media with particle retention from 1 to 200 microns. It has depth filtration qualities and high solids loading capacity. These filters will be used as a preventive measure in order to protect the storm water collection system and ensure that no solid traces accumulate in the system.

Corrective action documentation is provided in **Attachment 3**. During the next reporting period, AES will continue conducting benchmark monitoring and sampling as required in AOC provision 68.

2- Additional Actions Taken

AES-PR is submitting with this QPR documentation of the compliance activities completed during this period (**Attachment 3**). Inspections were documented and records kept with the Stormwater Pollution Prevention Plan. All routine inspections and corrective actions for the **October 1, 2016** to **December 31, 2016** period were completed, documented and are being submitted with this report.

Certification

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Manuel Mata
Plant Manager

ATTACHMENT 1

Discharge Monitoring Report

DMR Copy of Record

Permit

Permit #:	PRR053093	**Permittee:**	AES PUERTO RICO, LP	**Facility:**	AES PUERTO RICO, L.P.
Major:	No	**Permittee Address:**	Road #3 km. 142 Jobos Ward Guayama, PR 00784	**Facility Location:**	ROAD #3 KM. 142 JOBOS WARD GUAYAMA, PR 00784
Permitted Feature:	001 External Outfall	**Discharge:**	001-O1 Steam Electric Generating Facilities		

Report Dates & Status

Monitoring Period:	From 10/01/16 to 12/31/16	**DMR Due Date:**	02/28/17	**Status:**	NetDMR Validated

Considerations for Form Completion

Principal Executive Officer

First Name:	Manuel	**Title:**	Plant Manager	**Telephone:**	787-866-8117
Last Name:	Mata				

No Data Indicator (NODI)

Form NODI: --

Parameter Code	Parameter Name	Monitoring Location	Season #	Param. NODI		Quantity or Loading Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Quality or Concentration Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3	Value 3	Units	# of Ex.	Frequency of Analysis	Sample Type
01045	Iron, total [as Fe]	1 - Effluent Gross	0	--	Sample										=	0.776	19 - mg/L		01/90 - Quarterly	GR - GRAB
					Permit Req.										<=	1 MAXIMUM	19 - mg/L		01/90 - Quarterly	GR - GRAB
					Value NODI															

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

No errors.

Comments

Attachments

No attachments.

Report Last Saved By

AES PUERTO RICO, LP

User:	manuel.mata@aes.com	Date/Time:	2016-12-16 08:39 (Time Zone: -05:00)
Name:	Manuel Mata		
E-Mail:	manuel.mata@aes.com		

DMR Copy of Record

Permit

Permit #:	PRR053093	**Permittee:**	AES PUERTO RICO, LP	**Facility:**	AES PUERTO RICO, L.P.
Major:	No	**Permittee Address:**	Road #3 km. 142 Jobos Ward Guayama, PR 00784	**Facility Location:**	ROAD #3 KM. 142 JOBOS WARD GUAYAMA, PR 00784
Permitted Feature:	001 External Outfall	**Discharge:**	001-Q1 Water Transportation Facilities		

Report Dates & Status

Monitoring Period:	From 10/01/16 to 12/31/16	**DMR Due Date:**	02/28/17	**Status:**	NetDMR Validated

Considerations for Form Completion

Principal Executive Officer

First Name:	Manuel	**Title:**	Plant Manager	**Telephone:**	787-866-8117
Last Name:	Mata				

No Data Indicator (NODI)

Form NODI: –

	Parameter		Monitoring Location	Season #	Param. NODI		Quantity or Loading						Quality or Concentration						# of Ex.	Frequency of Analysis	Sample Type
	Code	Name					Qualifier 1	Value 1	Qualifier 2	Value 2	Units		Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3	Value 3	Units		
						Sample							=	0.776				19 - mg/L		01/90 - Quarterly	GR - GRAB
	01045	Iron, total [as Fe]	1 - Effluent Gross	0	–	Permit Req.							<=	1 MAXIMUM				19 - mg/L		01/90 - Quarterly	GR - GRAB
						Value NODI															
						Sample							<	0.002				19 - mg/L		01/90 - Quarterly	GR - GRAB
	01051	Lead, total [as Pb]	1 - Effluent Gross	0	–	Permit Req.							<=	.21 MAXIMUM				19 - mg/L		01/90 - Quarterly	GR - GRAB
						Value NODI															
						Sample							=	287				28 - ug/L		01/90 - Quarterly	GR - GRAB
X	01092	Zinc, total [as Zn]	1 - Effluent Gross	0	–	Permit Req.							<=	90 MAXIMUM				28 - ug/L		01/90 - Quarterly	GR - GRAB
						Value NODI															
						Sample							=	1.13				19 - mg/L		01/90 - Quarterly	GR - GRAB
X	01105	Aluminum, total [as Al]	1 - Effluent Gross	0	–	Permit Req.							<=	.75 MAXIMUM				19 - mg/L		01/90 - Quarterly	GR - GRAB
						Value NODI															

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

Parameter		Monitoring Location	Field	Type	Description	Acknowledge
Code	Name					
01092	Zinc, total [as Zn]	1 - Effluent Gross	Quality or Concentration Sample Value 3	Soft	The provided sample value is outside the permit limit. (Error Code: 1)	Yes
01105	Aluminum, total [as Al]	1 - Effluent Gross	Quality or Concentration Sample Value 3	Soft	The provided sample value is outside the permit limit. (Error Code: 1)	Yes

Comments

Attachments

No attachments.

Report Last Saved By

AES PUERTO RICO, LP

User:	manuel.mata@aes.com	Date/Time:	2016-12-16 08:55 (Time Zone: -05:00)
Name:	Manuel Mata		
E-Mail:	manuel.mata@aes.com		

BECKTON
Environmental Laboratories. Inc.

ACCREDITED IN ACCORDANCE WITH nelac

REPORT OF ANALYSIS

ATTENTION: Mr. Héctor Ávila
COMPANY: AES Puerto Rico - Guayama

DATE: November 16, 2016

CONTRACT: AES – Guayama

LAB. SAMPLE ID: BEL-1603816
SAMPLE COLLECTED BY: Client (H. Ávila)
DATE RECEIVED0: 10/20/16

SAMPLE DATE: 10/19/16
TIME: 13:20

DESCRIPTION: Stormwater 001
LAB. FILE ID: 1603816
MATRIX: Water

PARAMETER	EPA METHOD	SAMPLE TYPE	UNITS	BEL-1603816 RESULT	METHOD DETECTION LIMIT	ANALYST	DATE ANALYZED
Aluminum	200.7(ICAP)	Grab	mg/L	1.13	0.005	BTR	11/15/16
Iron	200.7(ICAP)	Grab	mg/L	0.776	0.010	BTR	11/15/16
Lead	200.7(ICAP)	Grab	mg/L	<0.002	0.002	BTR	11/15/16
Zinc	200.7(ICAP)	Grab	mg/L	0.287	0.002	BTR	11/15/16

Sample was preserved in the laboratory.

Method Detection Limit (MDL)-The minimum concentration of a substance that can be measured and reported with 99% confidence that the value is above zero.

Certification and release of the data contained in the Report of Analysis has been authorized by the Laboratory Manager or the Manager's Designee. Sample results related only to the sample submitted.

Lcda. Iris M. Chévere Alfonzo
Laboratory Director
Chemist License 2370

Attachment: Chain of Custody Records (1)

$1.00 $1.00 A 1606001

ESTADO LIBRE ASOCIADO DE PUERTO RICO
Iris M. Chévere Alfonzo
Lic # 2370
QUIMICO LICENCIADO

192 VILLA STREET • PONCE, PR 00730-4875 • TEL. (787) 841-7373 • FAX (787) 841-7313

BECKTON ENVIRONMENTAL LABORATORIES
192 Villa Street • Ponce, P.R. 00730-4875
Tel. 787-841-7373 • Fax 787-841-7313

REVISION 2009

CHAIN OF CUSTODY RECORD

PROYECT NO.	COMPANY: AES Guayama	SAMPLER: A. Avila / client
SAMPLE LOCATION/CLIENT ID	Stormwater 001	TIME: 13:20 AM PM
SAMPLE DATE	10-19-16	BEL. NO.: 1603816

CONTROL NO. 187522

1. General Environmental:		PC	VSS		PC
Acidity	( )		Alkalinity	( )	
Ammonia as N	( )		Bicarbonate	( )	
BOD-5	( )		Bromide	( )	
Chloride	( )		Chlorine, Res.	( )	
COD	( )		Color (ADMI)	( )	
Conductivity µmhos/cm	( )		Color (Pt-Co)	( )	
Dissolved Oxygen	( )		Cyanide	( )	
Hardness	( )		Fluoride	( )	
Moisture %	( )		Iodide	( )	
Nitrite	( )		Nitrate	( )	
Oil+Grease	( )		Nitrate + Nitrite	( )	
Phenol	( )		pH, S.U.	( )	
Phosphorus, Total	( )		Phosphate, Ortho	( )	
Sett Solids mg/L	( )		Sett. Solids mL/L	( )	
Sulfate	( )		Solids, Total	( )	
Sulfite	( )		Sulfide	( )	
TDS	( )		Surfactant	( )	
Temperature, °C	( )		TSS	( )	
TOC	( )		TKN	( )	
Asbestos	( )		Turbidity	( )	
TVS	( )		Carbonate	( )	
Total Nitrogen	( )				

2. Metals:							
Aluminum	(Al)	(X)	1,3	Cadmium	(Cd)	( )	
Chromium	(Cr)	( )		Copper	(Cu)	( )	
Iron	(Fe)	(X)	1,3	Lead	(Pb)	(X)	1,2
Manganese	(Mn)	( )		Mercury	(Hg)	( )	
Nickel	(Ni)	( )		Selenium	(Se)	( )	
Silver	(Ag)	( )		Tin	(Sn)	( )	
Zinc	(Zn)	(X)	1,2	Arsenic	(As)	( )	
Barium	(Ba)	( )		Boron	(B)	( )	
Antimony	(Sb)	( )		Beryllium	(Be)	( )	
Bismuth	(Bi)	( )		Calcium	(Ca)	( )	
Chromium, VI	(CrVI)	( )		Cobalt	(Co)	( )	
Magnesium	(Mg)	( )		Molybdenum	(Mo)	( )	
Potassium	(K)	( )		Silicon	(Si)	( )	
Sodium	(Na)	( )		Strontium	(Sr)	( )	
Thallium	(Tl)	( )		Titanium	(Ti)	( )	
Vanadium	(V)	( )		Lithium	(Li)	( )	

3. RCRA/Hazardous wastes				
Ignitability (Flash Pt.)	( )		Corrosivity	( )
Reactivity (CN & S)	( )		TCLP	( )
RCRA Metals	( )		Organics-Pest/Herb	( )
Organics-BNA	( )		Organics-VOA	( )
TOX	( )			

4. Specific Organics				
Volatiles	( )		Phenols GC	( )
Pesticides/PCB's	( )		Semi-Volitiles (BNA)	( )
Herbicides	( )		PCB's Only	( )
BTEX	( )		TPH 418.1	( )
TTO & Dioxin	( )		TTO	( )
			TPH 8015	( )
			Lindane	( )

5. Microbiology				
Fecal Coliform	( )		Total Coliform	( )

Comments: _____

Sampling Witness; _____
Date/Time: _____
Relinquished by: _____
Date/Time: 10/20/16 9:20
Received by: _____
Date/Time: 10-20-16 9:20
Relinquished by: _____
Date/Time: 10-20-16 11:22 Am
Received by: _____
Date/Time: 10/20/16 11:22am
Relinquished by: _____
Date/Time: _____
Received by: _____
Date/Time: _____

Matrix

air	( )	water	(X)	sludge	( )
liquid	( )	soil	( )	solid	( )
oil	( )	mixed	( )	other	( )

Specify: _____

Preservative Codes = PC

1. Cool, <6° C
2. Sulfuric Acid (H_2SO_4) pH<2
3. Nitric Acid (HNO_3), pH<2
4. Hydrochloric acid (HCl)
5. Sodium Thiosulfate
6. Sodium Hydroxide(NaOH)
7. Zinc Acetate
8. Ascorbic Acid
9. FAS
10. Other

Sample type legend:

grab samples x
composite samples xx

Turnaround time:

1 day ( )
2 days ( )
3 days ( )
5 days ( )

Sampling Equipment:

Automatic Sampler ( )
Sample Pick Up ( )

Note: normal turnaround time is ten (10) working days; additional charges apply for rush orders.

Original

DMR Copy of Record

Permit

Permit #:	PRR053093	**Permittee:**	AES PUERTO RICO, LP	**Facility:**	AES PUERTO RICO, L.P.
Major:	No	**Permittee Address:**	Road #3 km. 142 Jobos Ward Guayama, PR 00784	**Facility Location:**	ROAD #3 KM. 142 JOBOS WARD GUAYAMA, PR 00784
Permitted Feature:	002 External Outfall	**Discharge:**	002-O1 Steam Electric Generating Facilities		

Report Dates & Status

Monitoring Period:	From 10/01/16 to 12/31/16	**DMR Due Date:**	02/28/17	**Status:**	NetDMR Validated

Considerations for Form Completion

Principal Executive Officer

First Name:	Manuel	**Title:**	Plant Manager	**Telephone:**	787-866-8117
Last Name:	Mata				

No Data Indicator (NODI)

Form NODI: –

Parameter		Monitoring Location	Season #	Param. NODI		Quantity or Loading				Quality or Concentration					# of Ex.	Frequency of Analysis	Sample Type
Code	Name					Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3	Value 3	Units			
					Sample										=	0.222	19 - mg/L	01/90 - Quarterly	GR - GRAB
01045	Iron, total [as Fe]	1 - Effluent Gross	0	–	Permit Req.										<=	1 MAXIMUM	19 - mg/L	01/90 - Quarterly	GR - GRAB
					Value NODI														

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

No errors.

Comments

Attachments

No attachments.

Report Last Saved By

AES PUERTO RICO, LP

User:	manuel.mata@aes.com	Date/Time:	2016-12-16 08:46 (Time Zone: -05:00)
Name:	Manuel Mata		
E-Mail:	manuel.mata@aes.com		

DMR Copy of Record

Permit

Permit #:	PRR053093	**Permittee:**	AES PUERTO RICO, LP	**Facility:**	AES PUERTO RICO, L.P.
Major:	No	**Permittee Address:**	Road #3 km. 142 Jobos Ward Guayama, PR 00784	**Facility Location:**	ROAD #3 KM. 142 JOBOS WARD GUAYAMA, PR 00784
Permitted Feature:	002 External Outfall	**Discharge:**	002-Q1 Water Transportation Facilities		

Report Dates & Status

Monitoring Period:	From 10/01/16 to 12/31/16	**DMR Due Date:**	02/28/17	**Status:**	NetDMR Validated

Considerations for Form Completion

Principal Executive Officer

First Name:	Manuel	**Title:**	Plant Manager	**Telephone:**	787-866-8117
Last Name:	Manuel				

No Data Indicator (NODI)

Form NODI: –

Parameter		Monitoring Location	Season #	Param. NODI		Quantity or Loading				Quality or Concentration					# of Ex.	Frequency of Analysis	Sample Type
Code	Name					Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3	Value 3	Units			
					Sample						=	0.222				19	mg/L	01/90	Quarterly	GR - GRAB
01045	Iron, total [as Fe]	1 - Effluent Gross	0	–	Permit Req.						<=	1			MAXIMUM	19	mg/L	01/90	Quarterly	GR - GRAB
					Value NODI															
					Sample						<	0.002				19	mg/L	01/90	Quarterly	GR - GRAB
01051	Lead, total [as Pb]	1 - Effluent Gross	0	–	Permit Req.						<=	.21			MAXIMUM	19	mg/L	01/90	Quarterly	GR - GRAB
					Value NODI															
					Sample						=	38				28	ug/L	01/90	Quarterly	GR - GRAB
01092	Zinc, total [as Zn]	1 - Effluent Gross	0	–	Permit Req.						<=	90			MAXIMUM	28	ug/L	01/90	Quarterly	GR - GRAB
					Value NODI															
					Sample						=	0.207				19	mg/L	01/90	Quarterly	GR - GRAB
01105	Aluminum, total [as Al]	1 - Effluent Gross	0	–	Permit Req.						<=	.75			MAXIMUM	19	mg/L	01/90	Quarterly	GR - GRAB
					Value NODI															

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

No errors.

Comments

Attachments

No attachments.

Report Last Saved By

AES PUERTO RICO, LP

User:	manuel.mata@aes.com	Date/Time:	2016-12-16 08:56 (Time Zone: -05:00)
Name:	Manuel Mata		
E-Mail:	manuel.mata@aes.com		

BECKTON
Environmental Laboratories. Inc.

ACCREDITED IN ACCORDANCE WITH nelac

REPORT OF ANALYSIS

ATTENTION: Mr. Héctor Ávila
COMPANY: AES Puerto Rico - Guayama

DATE: November 16, 2016

CONTRACT: AES – Guayama

LAB. SAMPLE ID: BEL-1603817
SAMPLE COLLECTED BY: Client (H. Ávila)
DATE RECEIVED0: 10/20/16

SAMPLE DATE: 10/18/16
TIME: 11:49

DESCRIPTION: Stormwater 002
LAB. FILE ID: 1603817
MATRIX: Water

PARAMETER	EPA METHOD	SAMPLE TYPE	UNITS	BEL-1603817 RESULT	METHOD DETECTION LIMIT	ANALYST	DATE ANALYZED
Aluminum	200.7(ICAP)	Grab	mg/L	0.207	0.005	BTR	11/15/16
Iron	200.7(ICAP)	Grab	mg/L	0.222	0.010	BTR	11/15/16
Lead	200.7(ICAP)	Grab	mg/L	<0.002	0.002	BTR	11/15/16
Zinc	200.7(ICAP)	Grab	mg/L	0.038	0.002	BTR	11/15/16

Sample was preserved in the laboratory.

Method Detection Limit (MDL)-The minimum concentration of a substance that can be measured and reported with 99% confidence that the value is above zero.

Certification and release of the data contained in the Report of Analysis has been authorized by the Laboratory Manager or the Manager's Designee. Sample results related only to the sample submitted.

Lcda. Iris M. Chévere Alfonzo
Laboratory Director
Chemist License 2370

Attachment: Chain of Custody Record

$1.00 $1.00 A 1605994 Iris M. Chévere Alfonzo Lic # 2370 ESTADO LIBRE ASOCIADO DE PUERTO RICO QUIMICO LICENCIADO

192 VILLA STREET • PONCE, PR 00730-4875 • TEL. (787) 841-7373 • FAX (787) 841-7313

BECKTON ENVIRONMENTAL LABORATORIES
192 Villa Street • Ponce, P.R. 00730-4875
Tel. 787-841-7373 • Fax 787-841-7313

REVISION 2009

CHAIN OF CUSTODY RECORD

PROYECT NO.	COMPANY: AES Guayama	SAMPLER: H. Avila / client
SAMPLE LOCATION/CLIENT ID	Storm water 002	TIME: 11:49 AM PM
SAMPLE DATE	10-18-16	BEL. NO.: 1603817
		CONTROL NO.: 187557

1. General Environmental:		PC	VSS		PC
Acidity	( )		Alkalinity	( )	
Ammonia as N	( )		Bicarbonate	( )	
BOD-5	( )		Bromide	( )	
Chloride	( )		Chlorine, Res.	( )	
COD	( )		Color (ADMI)	( )	
Conductivity µmhos/cm	( )		Color (Pt-Co)	( )	
Dissolved Oxygen	( )		Cyanide	( )	
Hardness	( )		Fluoride	( )	
Moisture %	( )		Iodide	( )	
Nitrite	( )		Nitrate	( )	
Oil+Grease	( )		Nitrate + Nitrite	( )	
Phenol	( )		pH, S.U.	( )	
Phosphorus, Total	( )		Phosphate, Ortho	( )	
Sett Solids mg/L	( )		Sett. Solids mL/L	( )	
Sulfate	( )		Solids, Total	( )	
Sulfite	( )		Sulfide	( )	
TDS	( )		Surfactant	( )	
Temperature, °C	( )		TSS	( )	
TOC	( )		TKN	( )	
Asbestos	( )		Turbidity	( )	
TVS	( )		Carbonate	( )	
Total Nitrogen	( )				

2. Metals:							
Aluminum	(Al)	(X)	1,3	Cadmium	(Cd)	( )	
Chromium	(Cr)	( )		Copper	(Cu)	( )	
Iron	(Fe)	(X)	1,3	Lead	(Pb)	(X)	1,3
Manganese	(Mn)	( )		Mercury	(Hg)	( )	
Nickel	(Ni)	( )		Selenium	(Se)	( )	
Silver	(Ag)	( )		Tin	(Sn)	( )	
Zinc	(Zn)	(X)	1,3	Arsenic	(As)	( )	
Barium	(Ba)	( )		Boron	(B)	( )	
Antimony	(Sb)	( )		Beryllium	(Be)	( )	
Bismuth	(Bi)	( )		Calcium	(Ca)	( )	
Chromium, VI	(CrVI)	( )		Cobalt	(Co)	( )	
Magnesium	(Mg)	( )		Molybdenum	(Mo)	( )	
Potassium	(K)	( )		Silicon	(Si)	( )	
Sodium	(Na)	( )		Strontium	(Sr)	( )	
Thallium	(Tl)	( )		Titanium	(Ti)	( )	
Vanadium	(V)	( )		Lithium	(Li)	( )	

3. RCRA/Hazardous wastes				
Ignitability (Flash Pt.)	( )		Corrosivity	( )
Reactivity (CN & S)	( )		TCLP	( )
RCRA Metals	( )		Organics-Pest/Herb	( )
Organics-BNA	( )		Organics-VOA	( )
TOX	( )			

4. Specific Organics				
Volatiles	( )		Phenols GC	( )
Pesticides/PCB's	( )		Semi-Volitiles (BNA)	( )
Herbicides	( )		PCB's Only	( )
BTEX	( )		TPH 418.1	( )
TTO & Dioxin	( )		TTO	( )
			TPH 8015	( )
			Lindane	( )

5. Microbiology				
Fecal Coliform	( )		Total Coliform	( )

Comments: _____

Sampling Witness; _____
Date/Time: _____
Relinquished by: [signature]
Date/Time: 10/20/16 9:20
Received by: [signature]
Date/Time: 10-20-16 9:20
Relinquished by: [signature]
Date/Time: 10-20-16 11:22 Am
Received by: [signature]
Date/Time: 10/20/16 11:22am
Relinquished by: _____
Date/Time: _____
Received by: _____
Date/Time: _____

Matrix

air	( )	water	(X)	sludge	( )
liquid	( )	soil	( )	solid	( )
oil	( )	mixed	( )	other	( )

Specify: _____

Preservative Codes = PC

1. Cool,<6°C	6. Sodium Hydroxide(NaOH)
2. Sulfuric Acid (H_2SO_4) pH<2	7. Zinc Acetate
3. Nitric Acid (HNO_3), pH<2	8. Ascorbic Acid
4. Hydrochloric acid (HCl)	9. FAS
5. Sodium Thiosulfate	10.Other

Sample type legend:

grab samples	x
composite samples	xx

Turnaround time:

1 day ( )
2 days ( )
3 days ( )
5 days ( )

Note: normal turnaround time is ten (10) working days; additional charges apply for rush orders.

Sampling Equipment:

Automatic Sampler ( )
Sample Pick Up ( )

Original

DMR Copy of Record

Permit

Permit #:	PRR053093	**Permittee:**	AES PUERTO RICO, LP	**Facility:**	AES PUERTO RICO, L.P.
Major:	No	**Permittee Address:**	Road #3 km. 142 Jobos Ward Guayama, PR 00784	**Facility Location:**	ROAD #3 KM. 142 JOBOS WARD GUAYAMA, PR 00784
Permitted Feature:	003 External Outfall	**Discharge:**	003-O1 Steam Electric Generating Facilities		

Report Dates & Status

Monitoring Period:	From 10/01/16 to 12/31/16	**DMR Due Date:**	02/28/17	**Status:**	NetDMR Validated

Considerations for Form Completion

Principal Executive Officer

First Name:	Manuel	**Title:**	Plant Manager	**Telephone:**	787-866-8117
Last Name:	Mata				

No Data Indicator (NODI)

Form NODI: --

Parameter		Monitoring Location	Season #	Param. NODI		Quantity or Loading				Quality or Concentration						# of Ex.	Frequency of Analysis	Sample Type
Code	Name					Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3	Value 3	Units			
01045	Iron, total [as Fe]	1 - Effluent Gross	0	--	Sample										=	0.188	19 - mg/L		01/90 - Quarterly	GR - GRAB
					Permit Req.										<=	1	MAXIMUM 19 - mg/L		01/90 - Quarterly	GR - GRAB
					Value NODI															

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

No errors.

Comments

Attachments

No attachments.

Report Last Saved By

AES PUERTO RICO, LP

User:	manuel.mata@aes.com	Date/Time:	2016-11-28 09:06 (Time Zone: -05:00)
Name:	Manuel Mata		
E-Mail:	manuel.mata@aes.com		

DMR Copy of Record

Permit

Permit #:	PRR053093	**Permittee:**	AES PUERTO RICO, LP	**Facility:**	AES PUERTO RICO, L.P.
Major:	No	**Permittee Address:**	Road #3 km. 142 Jobos Ward Guayama, PR 00784	**Facility Location:**	ROAD #3 KM. 142 JOBOS WARD GUAYAMA, PR 00784
Permitted Feature:	003 External Outfall	**Discharge:**	003-Q1 Water Transportation Facilities		

Report Dates & Status

Monitoring Period:	From 10/01/16 to 12/31/16	**DMR Due Date:**	02/28/17	**Status:**	NetDMR Validated

Considerations for Form Completion

Principal Executive Officer

First Name:	Manuel	**Title:**	Plant Manager	**Telephone:**	787-866-8117
Last Name:	Mata				

No Data Indicator (NODI)

Form NODI: –

Parameter		Monitoring Location	Season #	Param. NODI		Quantity or Loading						Quality or Concentration						# of Ex.	Frequency of Analysis	Sample Type
Code	Name					Qualifier 1	Value 1	Qualifier 2	Value 2	Units		Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3	Value 3	Units		
					Sample											=	0.188	19 - mg/L		
01045	Iron, total [as Fe]	1 - Effluent Gross	0	–	Permit Req.											<=	1 MAXIMUM	19 - mg/L	01/90 - Quarterly	GR - GRAB
					Value NODI															
					Sample											<	0.002	19 - mg/L		
01051	Lead, total [as Pb]	1 - Effluent Gross	0	–	Permit Req.											<=	.21 MAXIMUM	19 - mg/L	01/90 - Quarterly	GR - GRAB
					Value NODI															
					Sample											=	34	28 - ug/L		
01092	Zinc, total [as Zn]	1 - Effluent Gross	0	–	Permit Req.											<=	90 MAXIMUM	28 - ug/L	01/90 - Quarterly	GR - GRAB
					Value NODI															
					Sample											=	0.242	19 - mg/L		
01105	Aluminum, total [as Al]	1 - Effluent Gross	0	–	Permit Req.											<=	.75 MAXIMUM	19 - mg/L	01/90 - Quarterly	GR - GRAB
					Value NODI															

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

No errors.

Comments

Attachments

No attachments.

Report Last Saved By

AES PUERTO RICO, LP

User:	manuel.mata@aes.com	Date/Time:	2016-11-28 09:08 (Time Zone: -05:00)
Name:	Manuel Mata		
E-Mail:	manuel.mata@aes.com		

BECKTON
Environmental Laboratories. Inc.

ACCREDITED IN ACCORDANCE WITH nelac

REPORT OF ANALYSIS

ATTENTION: Mr. Héctor Ávila
COMPANY: AES Puerto Rico - Guayama

DATE: November 16, 2016

CONTRACT: AES – Guayama

LAB. SAMPLE ID: BEL-1603818
SAMPLE COLLECTED BY: Client (H. Ávila)
DATE RECEIVED0: 10/20/16

SAMPLE DATE: 10/18/16
TIME: 11:55

DESCRIPTION: Stormwater 003
LAB. FILE ID: 1603818
MATRIX: Water

PARAMETER	EPA METHOD	SAMPLE TYPE	UNITS	BEL-1603818 RESULT	METHOD DETECTION LIMIT	ANALYST	DATE ANALYZED
Aluminum	200.7(ICAP)	Grab	mg/L	0.242	0.005	BTR	11/15/16
Iron	200.7(ICAP)	Grab	mg/L	0.188	0.010	BTR	11/15/16
Lead	200.7(ICAP)	Grab	mg/L	<0.002	0.002	BTR	11/15/16
Zinc	200.7(ICAP)	Grab	mg/L	0.034	0.002	BTR	11/15/16

Sample was preserved in the laboratory.

Method Detection Limit (MDL)-The minimum concentration of a substance that can be measured and reported with 99% confidence that the value is above zero.

Certification and release of the data contained in the Report of Analysis has been authorized by the Laboratory Manager or the Manager's Designee. Sample results related only to the sample submitted.

Lcda. Iris M. Chévere Alfonzo
Laboratory Director
Chemist License 2370

Attachment: Chain of Custody Records (1)

$1.00 $1.00 SOCIA A1605995

ESTADO LIBRE ASOCIADO DE PUERTO RICO
Iris M. Chévere Alfonzo
Lic. # 2370
QUIMICO LICENCIADO

192 VILLA STREET • PONCE, PR 00730-4875 • TEL. (787) 841-7373 • FAX (787) 841-7313

BECKTON ENVIRONMENTAL LABORATORIES
192 Villa Street • Ponce, P.R. 00730-4875
Tel. 787-841-7373 • Fax 787-841-7313

REVISION 2009

CHAIN OF CUSTODY RECORD

PROYECT NO.	COMPANY AES Guayama	SAMPLER H. Avila / Client	
SAMPLE LOCATION/CLIENT ID	Stormwater 003	TIME 11:55 AM	CONTROL NO. 187559
SAMPLE DATE	10-18-16	BEL. NO. 1603918	

1. General Environmental: (PC)
Acidity ( ) ___
Ammonia as N ( ) ___
BOD-5 ( ) ___
Chloride ( ) ___
COD ( ) ___
Conductivity µmhos/cm ( ) ___
Dissolved Oxygen ( ) ___
Hardness ( ) ___
Moisture % ( ) ___
Nitrite ( ) ___
Oil+Grease ( ) ___
Phenol ( ) ___
Phosphorus, Total ( ) ___
Sett Solids mg/L ( ) ___
Sulfate ( ) ___
Sulfite ( ) ___
TDS ( ) ___
Temperature, °C ( ) ___
TOC ( ) ___
Asbestos ( ) ___
TVS ( ) ___
Total Nitrogen ( )

VSS (PC)
Alkalinity ( ) ___
Bicarbonate ( ) ___
Bromide ( ) ___
Chlorine, Res. ( ) ___
Color (ADMI) ( ) ___
Color (Pt-Co) ( ) ___
Cyanide ( ) ___
Fluoride ( ) ___
Iodide ( ) ___
Nitrate ( ) ___
Nitrate + Nitrite ( ) ___
pH, S.U. ( ) ___
Phosphate, Ortho ( ) ___
Sett. Solids mL/L ( ) ___
Solids, Total ( ) ___
Sulfide ( ) ___
Surfactant ( ) ___
TSS ( ) ___
TKN ( ) ___
Turbidity ( ) ___
Carbonate ( ) ___

2. Metals:
Aluminum (Al) (X) / 1,3
Chromium (Cr) ( ) ___
Iron (Fe) (X) / 1,3
Manganese (Mn) ( ) ___
Nickel (Ni) ( ) ___
Silver (Ag) ( ) ___
Zinc (Zn) (X) / 1,3
Barium (Ba) ( ) ___
Antimony (Sb) ( ) ___
Bismuth (Bi) ( ) ___
Chromium, VI (CrVI) ( ) ___
Magnesium (Mg) ( ) ___
Potassium (K) ( ) ___
Sodium (Na) ( ) ___
Thallium (Tl) ( ) ___
Vanadium (V) ( ) ___

Cadmium (Cd) ( ) ___
Copper (Cu) ( ) ___
Lead (Pb) (X) / 1,3
Mercury (Hg) ( ) ___
Selenium (Se) ( ) ___
Tin (Sn) ( ) ___
Arsenic (As) ( ) ___
Boron (B) ( ) ___
Beryllium (Be) ( ) ___
Calcium (Ca) ( ) ___
Cobalt (Co) ( ) ___
Molybdenum (Mo) ( ) ___
Silicon (Si) ( ) ___
Strontium (Sr) ( ) ___
Titanium (Ti) ( ) ___
Lithium (Li) ( ) ___

3. RCRA/Hazardous wastes
Ignitability (Flash Pt.) ( ) ___
Reactivity (CN & S) ( ) ___
RCRA Metals ( ) ___
Organics-BNA ( ) ___
TOX ( ) ___

Corrosivity ( ) ___
TCLP ( ) ___
Organics-Pest/Herb ( ) ___
Organics-VOA ( ) ___

4. Specific Organics
Volatiles ( ) ___
Pesticides/PCB's ( ) ___
Herbicides ( ) ___
BTEX ( ) ___
TTO & Dioxin ( ) ___

Phenols GC ( ) ___
Semi-Volitiles (BNA) ( ) ___
PCB's Only ( ) ___
TPH 418.1 ( ) ___
TTO ( ) ___
TPH 8015 ( ) ___
Lindane ( ) ___

5. Microbiology
Fecal Coliform ( ) ___
Total Coliform ( ) ___

Comments: ______________________

Sampling Witness; ______________
Date/Time: ______________
Relinquished by: [signature]
Date/Time: 10/20/16 9:20
Received by: [signature]
Date/Time: 10-20-16 9:20
Relinquished by: [signature]
Date/Time: 10-20-16 11:22 AM
Received by: [signature]
Date/Time: 10/20/16 11:22am
Relinquished by: ______________
Date/Time: ______________
Received by: ______________
Date/Time: ______________

Matrix
air ( ) water (X) sludge ( )
liquid ( ) soil ( ) solid ( )
oil ( ) mixed ( ) other ( )

Specify: ______________

Preservative Codes = PC
1. Cool, <6°C
2. Sulfuric Acid (H_2SO_4) pH<2
3. Nitric Acid (HNO_3), pH<2
4. Hydrochloric acid (HCl)
5. Sodium Thiosulfate
6. Sodium Hydroxide(NaOH)
7. Zinc Acetate
8. Ascorbic Acid
9. FAS
10. Other

Sample type legend:
grab samples x
composite samples xx

Turnaround time:
1 day ( )
2 days ( )
3 days ( )
5 days ( )
Note: normal turnaround time is ten (10) working days; additional charges apply for rush orders.

Sampling Equipment:
Automatic Sampler ( )
Sample Pick Up ( )

Original

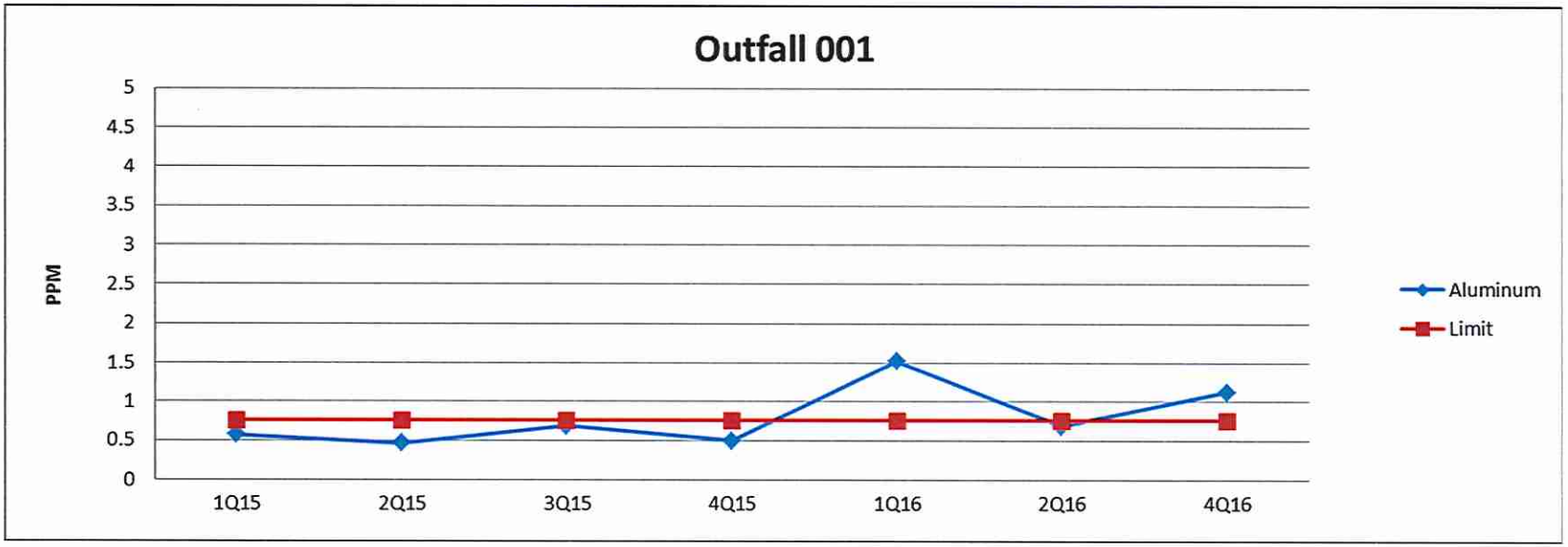
ATTACHMENT 2

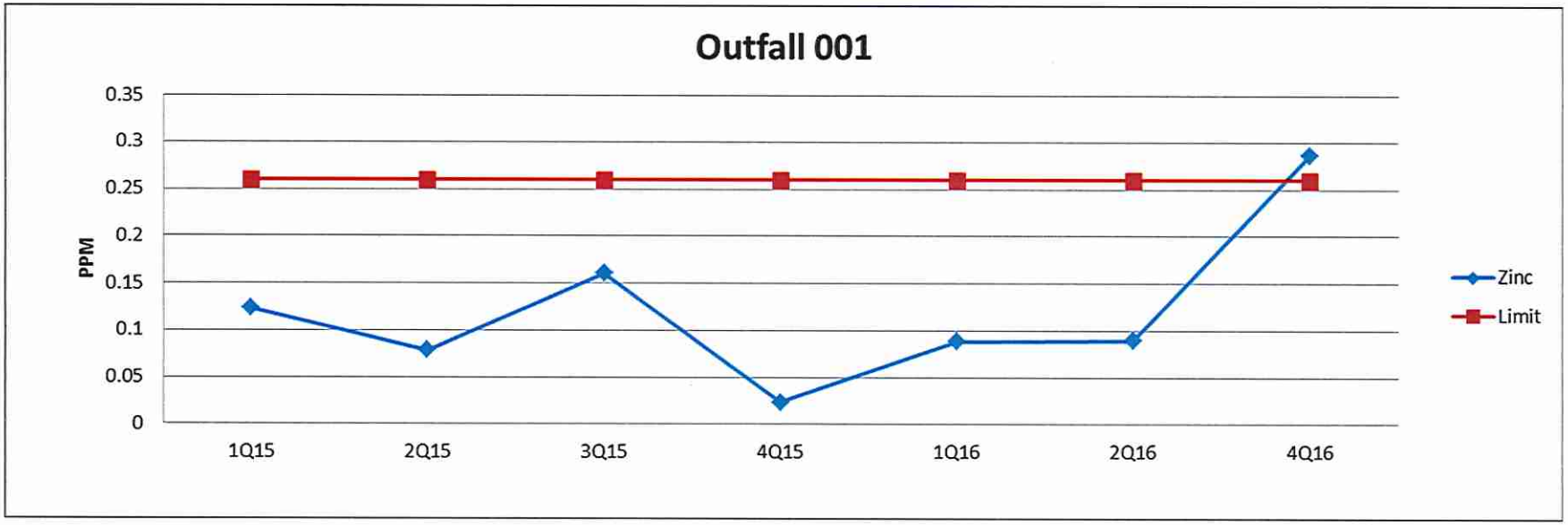
Summary of Benchmark Monitoring

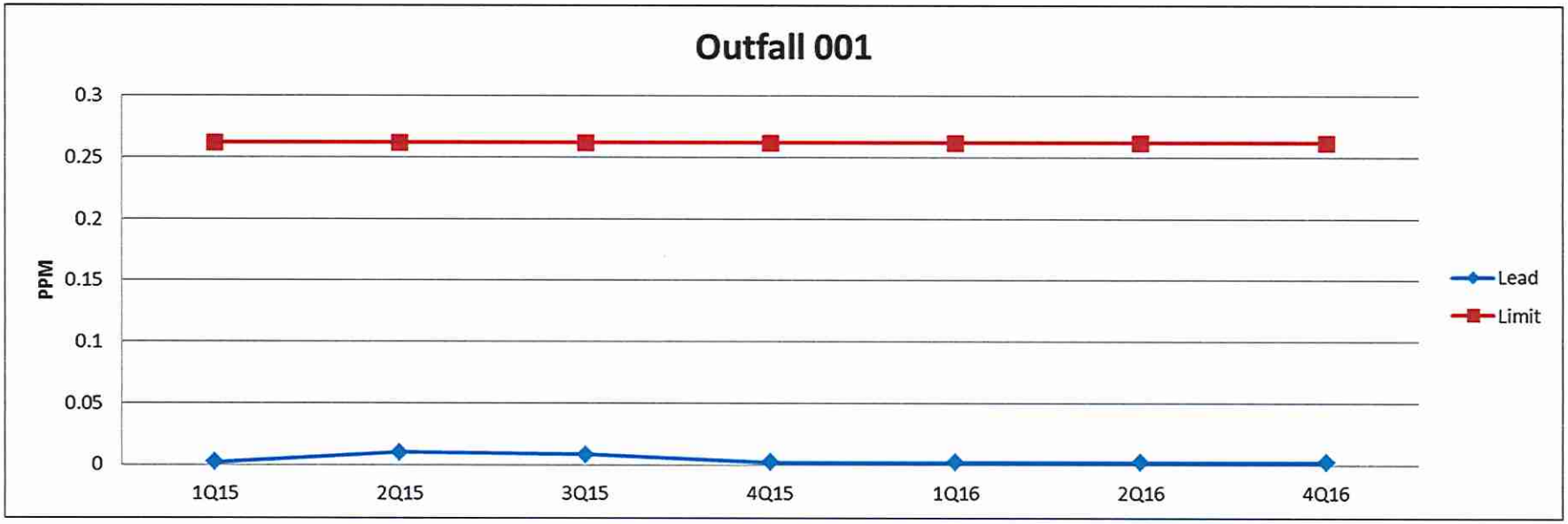
AES Puerto Rico, L.P.
Benchmark Monitoring Results Summary

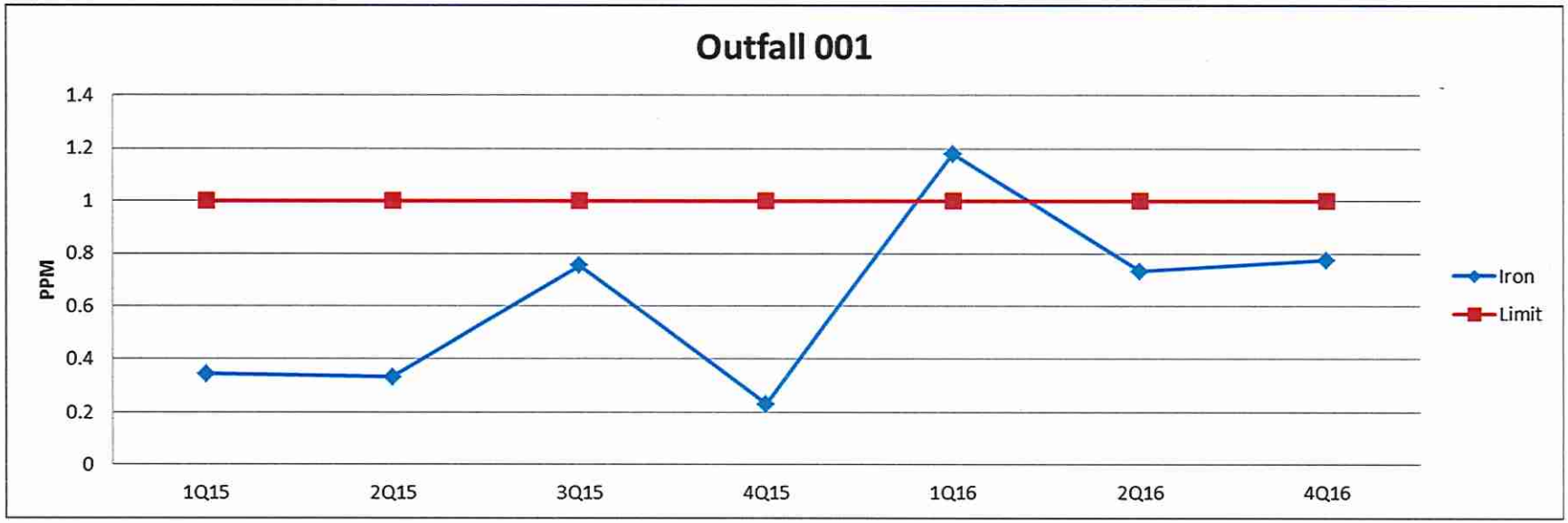
Quarter	Period	Outfall 001				Outfall 002				Outfall 003			
		Total Fe (mg/l)	*Total Al (mg/l)*	*Total Pb (mg/l)*	*Total Zn (mg/l)*	*Total Fe (mg/l)*	*Total Al (mg/l)*	*Total Pb (mg/l)*	*Total Zn (mg/l)*	*Total Fe (mg/l)*	*Total Al (mg/l)*	*Total Pb (mg/l)*	*Total Zn (mg/l)*
1	*ENE-MAR 2016*	1.18	1.52	<0.002	0.089	14.0	17.1	0.005	0.113	0.305	0.208	<0.002	0.022
2	*APR-JUN 2016*	0.733	0.682	<0.002	0.09	4.69	8.3	0.002	0.064	0.186	0.205	<0.002	0.036
3	*JUL-SEP 2016*	--	--	--	--	0.222	0.254	0.004	0.02	0.337	0.427	<0.002	0.061
4	*OCT-DEC 2016*	0.776	1.13	<0.002	0.287	0.222	0.207	<0.002	0.038	0.188	0.242	<0.002	0.034
Quarterly AVERAGE		0.896	1.111	<0.002	0.155	4.784	6.465	0.003	0.059	0.254	0.271	<0.002	0.038
Benchmark Concentration		1.0	0.75	0.262	0.260	1.0	0.75	0.262	0.260	1.0	0.75	0.262	0.260

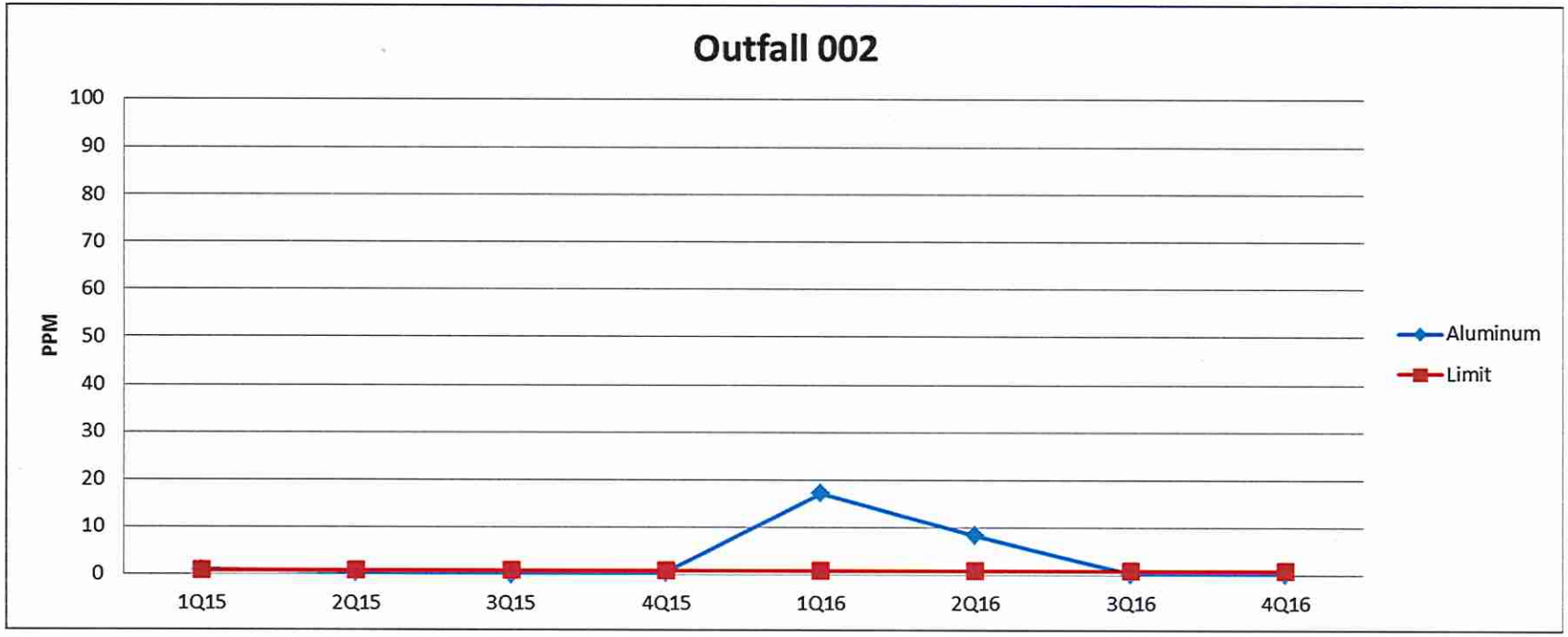
ND = No Discharge
-- = Sampling Equipment Failure

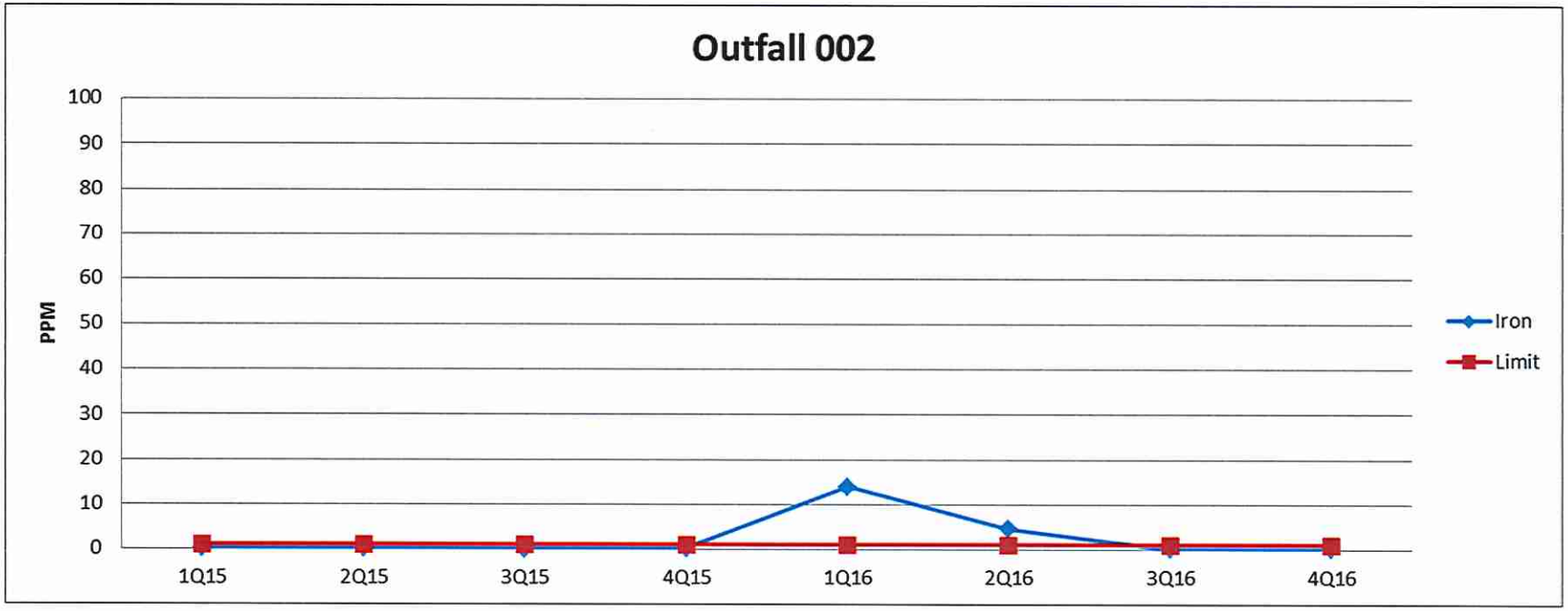

Outfall 001
PPM
5
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
1Q15
2Q15
3Q15
4Q15
1Q16
2Q16
4Q16
Aluminum
Limit

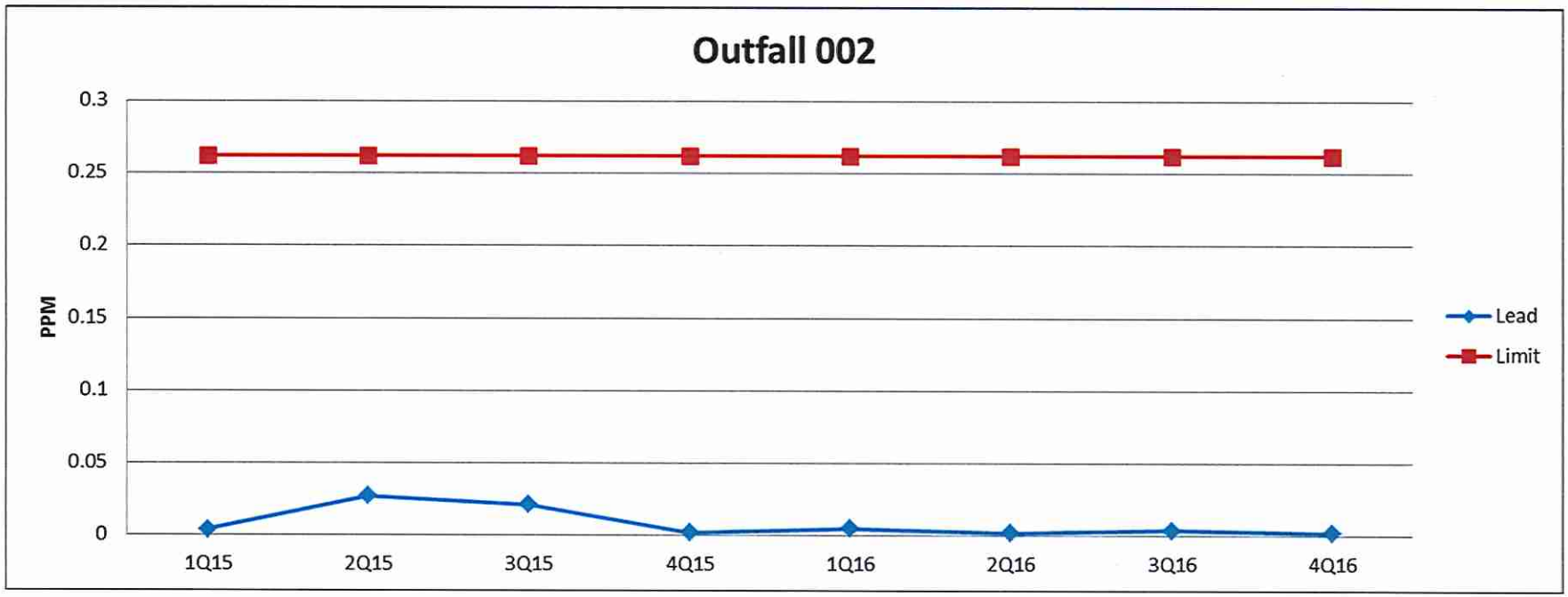

Outfall 001
PPM
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
1Q15
2Q15
3Q15
4Q15
1Q16
2Q16
4Q16
Zinc
Limit

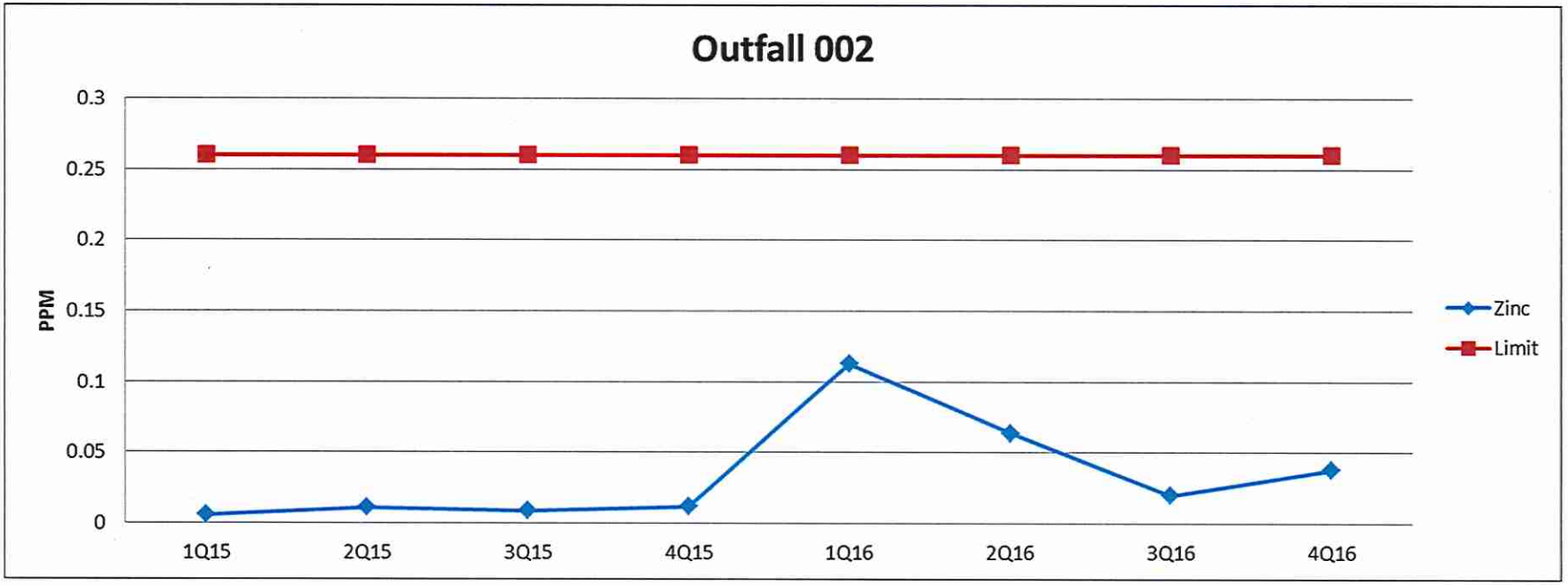

Outfall 001
PPM
0.3
0.25
0.2
0.15
0.1
0.05
0
1Q15
2Q15
3Q15
4Q15
1Q16
2Q16
4Q16
Lead
Limit

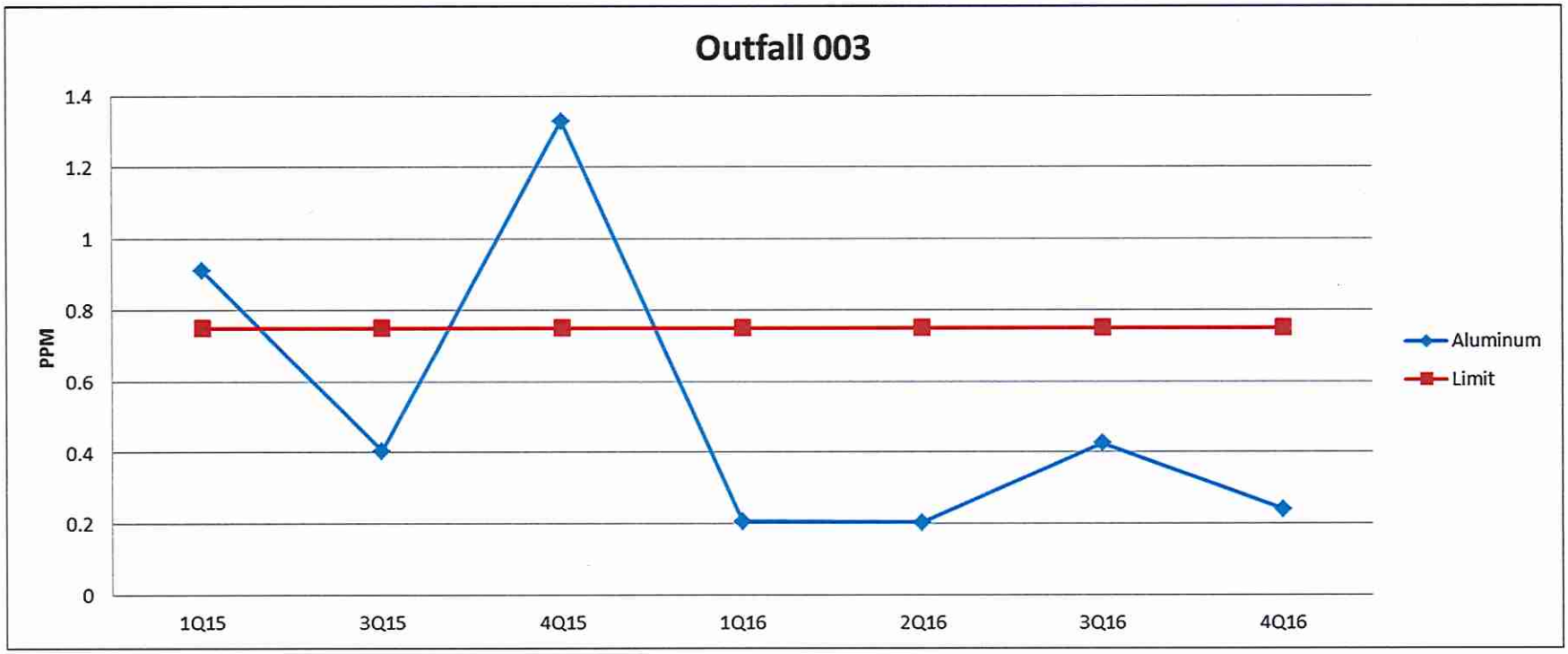

Outfall 001
PPM
1.4
1.2
1
0.8
0.6
0.4
0.2
0
1Q15
2Q15
3Q15
4Q15
1Q16
2Q16
4Q16
Iron
Limit

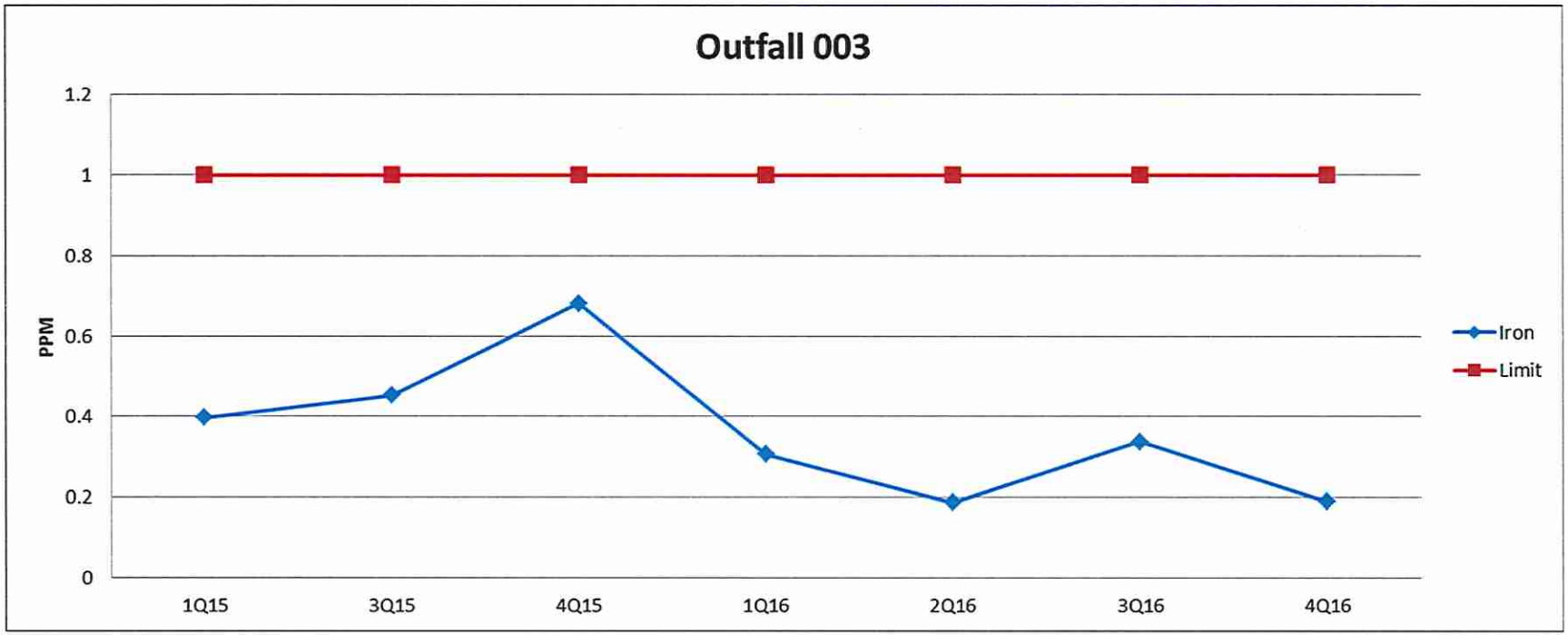

Outfall 002
PPM
100
90
80
70
60
50
40
30
20
10
0
1Q15
2Q15
3Q15
4Q15
1Q16
2Q16
3Q16
4Q16
Aluminum
Limit

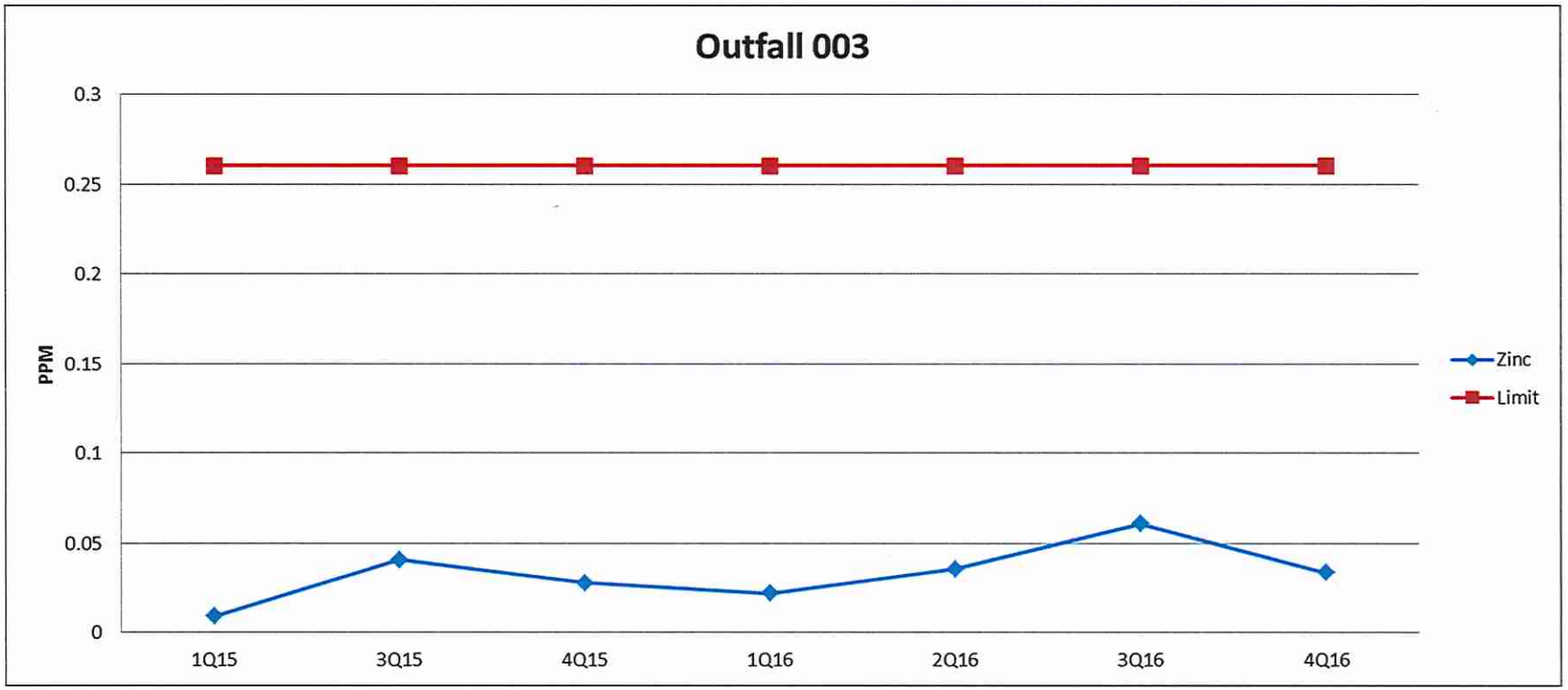

Outfall 002
PPM
100
90
80
70
60
50
40
30
20
10
0
1Q15
2Q15
3Q15
4Q15
1Q16
2Q16
3Q16
4Q16
Iron
Limit

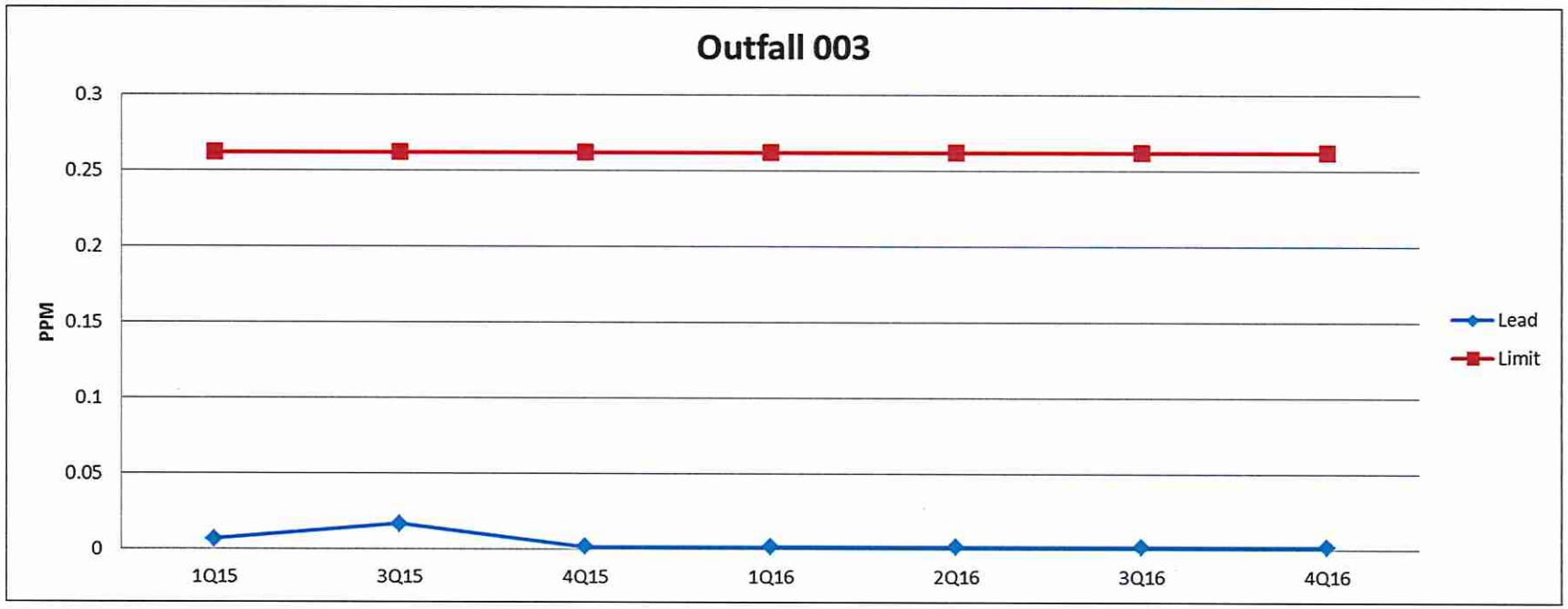

Outfall 002
PPM
0.3
0.25
0.2
0.15
0.1
0.05
0
1Q15
2Q15
3Q15
4Q15
1Q16
2Q16
3Q16
4Q16
Lead
Limit


Outfall 002
PPM
0.3
0.25
0.2
0.15
0.1
0.05
0
1Q15
2Q15
3Q15
4Q15
1Q16
2Q16
3Q16
4Q16
Zinc
Limit


Outfall 003
PPM
1.4
1.2
1
0.8
0.6
0.4
0.2
0
1Q15
3Q15
4Q15
1Q16
2Q16
3Q16
4Q16
Aluminum
Limit


Outfall 003
1.2
1
0.8
0.6
0.4
0.2
0
PPM
1Q15
3Q15
4Q15
1Q16
2Q16
3Q16
4Q16
Iron
Limit


Outfall 003
0.3
0.25
0.2
0.15
0.1
0.05
0
PPM
1Q15
3Q15
4Q15
1Q16
2Q16
3Q16
4Q16
Zinc
Limit


Outfall 003
PPM
0.3
0.25
0.2
0.15
0.1
0.05
0
1Q15
3Q15
4Q15
1Q16
2Q16
3Q16
4Q16
Lead
Limit

ATTACHMENT 3

Routine Inspections, Visual Inspections and Corrective Actions

Storm Water Industrial Routine Facility Inspection Form — Worksheet No. 4

General Information			
Facility Name	AES Puerto Rico, LP		
NPDES Tracking No.	PRR053093		
Date of Inspection	November 15, 2016	Start/End Time	9:00 am / 11:25 pm
Inspector's Name(s)	Pedro E. Labayen		
Inspector's Title(s)	Stormwater Compliance Coordinator		
Inspector's Contact Information	(787) 866-8117 ext. 2215		
Inspector's Qualifications	Professional Engineer		

Weather Information

Weather at time of this inspection?
☑ Clear ☐ Cloudy ☐ Rain ☐ Sleet ☐ Fog ☐ High Winds
☐ Other: **Wind 7 mph** Temperature: **88°F**

Have any previously unidentified discharges of pollutants occurred since the last inspection? ☐Yes ☑No
If yes, describe:

Are there any discharges occurring at the time of inspection? ☐Yes ☑No
If yes, describe:

Control Measures

- *Number the structural stormwater control measures identified in your SWPPP on your site map and list them below (add as many control measures as are implemented on-site). Carry a copy of the numbered site map with you during your inspections. This list will ensure that you are inspecting all required control measures at your facility.*
- *Describe corrective actions initiated, date completed, and note the person that completed the work in the Corrective Action Log.*

ID.	Structural Control Measure	Control Measure is Operating Effectively?	If No, In Need of Maintenance, Repair, or Replacement?	Corrective Action Needed and Notes (identify needed maintenance and repairs, or any failed control measures that need replacement)
Run-on Control (Northeast Area)				
01	Earth berm	☑Yes ☐No	☐ Maintenance ☐ Repair ☐ Replacement	
02	Concrete wall	☑Yes ☐No	☐ Maintenance ☐ Repair ☐ Replacement	
03	Rip rap	☑Yes ☐No	☐ Maintenance ☐ Repair ☐ Replacement	
04	Concrete swale	☑Yes ☐No	☐ Maintenance ☐ Repair ☐ Replacement	
05	Run-on inlet grate	☑Yes ☐No	☐ Maintenance ☐ Repair ☐ Replacement	
06	Polymer secondary containment	☑Yes ☐No	☐ Maintenance ☐ Repair ☐ Replacement	

ID.	Structural Control Measure	Control Measure is Operating Effectively?	If No, In Need of Maintenance, Repair, or Replacement?	Corrective Action Needed and Notes (identify needed maintenance and repairs, or any failed control measures that need replacement)
Firewater Pump station Area				
07	Diesel tank secondary containment	☑Yes ☐No	☐ Maintenance ☐ Repair ☐ Replacement	
08	Oil / Water Separator	☑Yes ☐No	☐ Maintenance ☐ Repair ☐ Replacement	
East Access Road Area				
09	Concrete channel	☑Yes ☐No	☐ Maintenance ☐ Repair ☐ Replacement	
10	Low wall	☑Yes ☐No	☐ Maintenance ☐ Repair ☐ Replacement	
11	Concrete swale next to switch yard	☑Yes ☐No	☐ Maintenance ☐ Repair ☐ Replacement	
Liquid Urea Storage Area				
12	Low wall	☑Yes ☐No	☐ Maintenance ☐ Repair ☐ Replacement	
13	Slope liner	☑Yes ☐No	☐ Maintenance ☐ Repair ☐ Replacement	
14	Truck secondary containment	☑Yes ☐No	☐ Maintenance ☐ Repair ☐ Replacement	
15	Tank secondary containment	☑Yes ☐No	☐ Maintenance ☐ Repair ☐ Replacement	
16	Concrete berm	☑Yes ☐No	☐ Maintenance ☐ Repair ☐ Replacement	
17	Concrete channel culvert inlet	☑Yes ☐No	☐ Maintenance ☐ Repair ☐ Replacement	
Oil Drums Storage				
18	Covered secondary containment	☑Yes ☐No	☐ Maintenance ☐ Repair ☐ Replacement	
Ash Silos- spout				
19	Ash silos	☑Yes ☐No	☐ Maintenance ☐ Repair ☐ Replacement	
20	Spout connection	☑Yes ☐No	☐ Maintenance ☐ Repair ☐ Replacement	
21	Water spray nozzles	☑Yes ☐No	☐ Maintenance ☐ Repair ☐ Replacement	

ID.	Structural Control Measure	Control Measure is Operating Effectively?	If No, In Need of Maintenance, Repair, or Replacement?	Corrective Action Needed and Notes (identify needed maintenance and repairs, or any failed control measures that need replacement)
22	Water hose	☑Yes ☐No	☐ Maintenance ☐ Repair ☐ Replacement	
		Diesel Fuel Storage		
23	Tank truck secondary containment	☑Yes ☐No	☐ Maintenance ☐ Repair ☐ Replacement	
24	Tanks secondary containment	☑Yes ☐No	☐ Maintenance ☐ Repair ☐ Replacement	
25	Drip pans for vehicle / equipment fueling	☑Yes ☐No	☐ Maintenance ☐ Repair ☐ Replacement	
		AGREMAX Stockpile		
26	Gabion wall	☑Yes ☐No	☐ Maintenance ☐ Repair ☐ Replacement	
27	10 feet buffer zone	☑Yes ☐No	☐ Maintenance ☐ Repair ☐ Replacement	
28	Low wall	☑Yes ☐No	☐ Maintenance ☐ Repair ☐ Replacement	
32	Covered conveyors	☑Yes ☐No	☐ Maintenance ☐ Repair ☐ Replacement	
35	Wheel wash	☑Yes ☐No	☐ Maintenance ☐ Repair ☐ Replacement	
37	Concrete channel	☑Yes ☐No	☐ Maintenance ☐ Repair ☐ Replacement	
		Gate #3		
39	Road grating (2)	☑Yes ☐No	☐ Maintenance ☐ Repair ☐ Replacement	
40	Curb	☑Yes ☐No	☐ Maintenance ☐ Repair ☐ Replacement	
41	Curb riprap	☑Yes ☐No	☐ Maintenance ☐ Repair ☐ Replacement	
42	Slope liner	☑Yes ☐No	☐ Maintenance ☐ Repair ☐ Replacement	
43	Outfall riprap	☑Yes ☐No	☐ Maintenance ☐ Repair ☐ Replacement	

ID.	Structural Control Measure	Control Measure is Operating Effectively?	If No, In Need of Maintenance, Repair, or Replacement?	Corrective Action Needed and Notes (identify needed maintenance and repairs, or any failed control measures that need replacement)
44	Sampling Point Outfall 002	☑Yes ☐No	☐ Maintenance ☐ Repair ☐ Replacement	
45	Concrete wall	☑Yes ☐No	☐ Maintenance ☐ Repair ☐ Replacement	
AGREMAX Stockpile Perimeter Road				
48	Gravel cover	☑Yes ☐No	☐ Maintenance ☐ Repair ☐ Replacement	
49	Concrete channel	☑Yes ☐No	☐ Maintenance ☐ Repair ☐ Replacement	
50	Low wall	☑Yes ☐No	☐ Maintenance ☐ Repair ☐ Replacement	
51	Run on outfall	☐Yes ☐No	☐ Maintenance ☐ Repair ☐ Replacement	
Coal Stockpile				
52	Runoff pond	☑Yes ☐No	☐ Maintenance ☐ Repair ☐ Replacement	
53	Super silt fence	☑Yes ☐No	☐ Maintenance ☐ Repair ☐ Replacement	Super silt fence was replaced at some areas as needed.
54	Sediment trap	☑Yes ☐No	☐ Maintenance ☐ Repair ☐ Replacement	
55	Concrete swale	☑Yes ☐No	☐ Maintenance ☐ Repair ☐ Replacement	
56	Wheel washer	☑Yes ☐No	☐ Maintenance ☐ Repair ☐ Replacement	
57	Riprap in channel and slopes	☑Yes ☐No	☐ Maintenance ☐ Repair ☐ Replacement	
Heavy Equipment Maintenance Shop				
61	Floor grating	☑Yes ☐No	☐ Maintenance ☐ Repair ☐ Replacement	
62	Oil / Water Separator	☑Yes ☐No	☐ Maintenance ☐ Repair ☐ Replacement	
63	Used oil storage tank and drums secondary containment	☑Yes ☐No	☐ Maintenance ☐ Repair ☐ Replacement	
64	Recyclable metals roll-off container cover	☐Yes ☐No	☐ Maintenance ☐ Repair ☐ Replacement	

ID.	Structural Control Measure	Control Measure is Operating Effectively?	If No, In Need of Maintenance, Repair, or Replacement?	Corrective Action Needed and Notes (identify needed maintenance and repairs, or any failed control measures that need replacement)
Warehouse / Urea Storage Building				
65	Access road gravel cover	☑Yes ☐No	☐ Maintenance ☐ Repair ☐ Replacement	
66	Earthen berm on west side	☑Yes ☐No	☐ Maintenance ☐ Repair ☐ Replacement	
67	Low wall on north side	☑Yes ☐No	☐ Maintenance ☐ Repair ☐ Replacement	
68	Trapezoidal swale	☑Yes ☐No	☐ Maintenance ☐ Repair ☐ Replacement	
Open Area West of Cooling Tower				
69	Gravel cover	☑Yes ☐No	☐ Maintenance ☐ Repair ☐ Replacement	
70	Slope liners	☑Yes ☐No	☐ Maintenance ☐ Repair ☐ Replacement	
Cooling Tower				
71	Secondary containment dike	☑Yes ☐No	☐ Maintenance ☐ Repair ☐ Replacement	
Water Treatment				
72	Sludge roll- off container inside clean grating	☑Yes ☐No	☐ Maintenance ☐ Repair ☐ Replacement	
73	Soda ash silo secondary containment	☑Yes ☐No	☐ Maintenance ☐ Repair ☐ Replacement	
74	Acid / caustic tank truck unloading secondary containment	☑Yes ☐No	☐ Maintenance ☐ Repair ☐ Replacement	
Access Road West of Power Plant				
75	Catch basin inserts	☑Yes ☐No	☐ Maintenance ☐ Repair ☐ Replacement	
76	Curb inlet	☑Yes ☐No	☐ Maintenance ☐ Repair ☐ Replacement	
77	Concrete berm w/ shallow gutter and curb inlet	☑Yes ☐No	☐ Maintenance ☐ Repair ☐ Replacement	
78	Mercury control chemicals covered storage dike	☑Yes ☐No	☐ Maintenance ☐ Repair ☐ Replacement	
Storm Water Runoff Pond				
80	Concrete weir	☑Yes ☐No	☐ Maintenance ☐ Repair ☐ Replacement	

ID.	Structural Control Measure	Control Measure is Operating Effectively?	If No, In Need of Maintenance, Repair, or Replacement?	Corrective Action Needed and Notes (identify needed maintenance and repairs, or any failed control measures that need replacement)
81	Riprap channel	☑Yes ☐No	☐ Maintenance ☐ Repair ☐ Replacement	
82	Sediment accumulation control	☑Yes ☐No	☐ Maintenance ☐ Repair ☐ Replacement	
83	Chemicals secondary containment	☑Yes ☐No	☐ Maintenance ☐ Repair ☐ Replacement	
Road North of Coal Pile Runoff Pond				
85	Coal pile runoff pond	☑Yes ☐No	☐ Maintenance ☐ Repair ☐ Replacement	
86	Low wall	☑Yes ☐No	☐ Maintenance ☐ Repair ☐ Replacement	
87	Riprap in channel and slopes	☑Yes ☐No	☐ Maintenance ☐ Repair ☐ Replacement	
88	Concrete wall	☑Yes ☐No	☐ Maintenance ☐ Repair ☐ Replacement	
89	Concrete beam	☑Yes ☐No	☐ Maintenance ☐ Repair ☐ Replacement	
90	Box culvert	☑Yes ☐No	☐ Maintenance ☐ Repair ☐ Replacement	
91	Sampling Point Outfall 003	☑Yes ☐No	☐ Maintenance ☐ Repair ☐ Replacement	
Marine Dock				
92	Collection manifold	☑Yes ☐No	☐ Maintenance ☐ Repair ☐ Replacement	
93	Pier secondary containment	☑Yes ☐No	☐ Maintenance ☐ Repair ☐ Replacement	
94	Sampling Point Outfall 001	☑Yes ☐No	☐ Maintenance ☐ Repair ☐ Replacement	
95	Conveyor TCI	☑Yes ☐No	☐ Maintenance ☐ Repair ☐ Replacement	

Areas of Industrial Materials or Activities exposed to stormwater
Below are some general areas that should be assessed during routine inspections. Customize this list as needed for the specific types of industrial materials or activities at your facility.

	Area/Activity	Controls Adequate (appropriate, effective, and operating)?	Corrective Action Needed or Completed and Notes
1	Material loading/unloading and storage areas (Agremax, limestone, coal storage)	☑Yes ☐No ☐ N/A	
2	Heavy equipment operations and maintenance areas	☑Yes ☐No ☐ N/A	
3	Fueling areas (heavy equipment fueling and storage tank unloading)	☑Yes ☐No ☐ N/A	
4	Outdoor vehicle and equipment washing areas	☑Yes ☐No ☐ N/A	
5	Waste handling and disposal areas	☑Yes ☐No ☐ N/A	
6	Erodible stockpiles (coal, Agremax)	☑Yes ☐No ☐ N/A	
7	Non-stormwater/ illicit connections	☐Yes ☐No ☑ N/A	
8	Dust generation and vehicle tracking	☑Yes ☐No ☐ N/A	
9	Water Treatment Area	☑Yes ☐No ☐ N/A	
10	Power Block Area	☑Yes ☐No ☐ N/A	
11	Administration Building Area	☑Yes ☐No ☐ N/A	
12	2 Million- gallon and 18 Million-gallon Pond Area	☑Yes ☐No ☐ N/A	
13	Marine Dock Area	☑Yes ☐No ☐ N/A	
14	Stormwater Sample Point 001	☑Yes ☐No ☐ N/A	
15	Stormwater Sample Point 002	☑Yes ☐No ☐ N/A	
16	Stormwater Sample Point 003	☑Yes ☐No ☐ N/A	

	Area/Activity	Controls Adequate (appropriate, effective, and operating)?	Corrective Action Needed or Completed and Notes
17	Run-on storm water conveyance system	☑Yes ❑No ❑ N/A	
18	Run-off storm water conveyance system	☑Yes ❑No ❑ N/A	
19	Process water conveyance system	☑Yes ❑No ❑ N/A	
20	CDS/ESP Area	☑Yes ❑No ❑ N/A	
21	Polymer application at 2 MM-gallon pond area	☑Yes ❑No ❑ N/A	
22	18 MM-gallon Pond Transfer Pumps	☑Yes ❑No ❑ N/A	
23	Coal Crusher Building	☑Yes ❑No ❑ N/A	
24	Portable Toilets	☑Yes ❑No ❑ N/A	

Non-Compliance

Describe any incidents of non-compliance observed and not described above:

Additional Control Measures

Describe any additional control measures needed to comply with the permit requirements:

Notes

Use this space for any additional notes or observations from the inspection:

CERTIFICATION STATEMENT

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Print name and title: Pedro E. Lalayin / Env. Coord

Signature: Pedro E. Lalayin **Date:** NOV 15, 2016

MSGP Quarterly Visual Assessment Form — Worksheet No. 6

(Complete a separate form for each outfall you assess)

Name of Facility: **AES Puerto Rico, L.P.** NPDES Tracking No. **PRR053093**

Outfall Name: **003** "Substantially Identical Outfall"? ☒ No ☐ Yes

Person(s)/Title(s) collecting sample: **Hector Avila**

Person(s)/Title(s) examining sample: **Hector Avila / Environmental Coordinator**

Date & Time Discharge Began:**10/18/16 (11:45 am)** Date & Time Sample Collected: **10/18/16 (11:55 am)** Date & Time Sample Examined: **10/18/16 (12:30 pm)**

Substitute Sample? ☒ No ☐ Yes (identify quarter/year when sample was originally scheduled to be collected):

Nature of Discharge: ☒ Rainfall ☐ Snowmelt

If rainfall: Rainfall Amount: **2.09 inches** Previous Storm Ended > 72 hours Before Start of This Storm? ☒ Yes ☐ No*

Parameter

Color ☒ None ☐ Other

Odor ☒ None ☐ Musty ☐ Sewage ☐ Sulfur ☐ Sour ☐ Petroleum/Gas _____ ☐ Solvents ☐ Other (describe):

Clarity ☒ Clear ☐ Slightly Cloudy ☐ Cloudy ☐ Opaque ☐ Other

Floating Solids ☒ No ☐ Yes (describe):

Settled Solids** ☒ No ☐ Yes (describe):

Suspended Solids ☒ No ☐ Yes (describe):

Foam (gently shake sample) ☒ No ☐ Yes (describe):

Oil Sheen ☒ None ☐ Flecks ☐ Globs ☐ Sheen ☐ Slick ☐ Other (describe):

Other Obvious Indicators of Stormwater Pollution ☒ No ☐ Yes (describe):

Sampling not performed due to no measurable storm event occurring that resulted in a discharge during the monitoring quarter:

☒ No ☐ Yes (describe):

* The 72-hour interval can be waived when the previous storm did not yield a measurable discharge or if you are able to document (attach applicable documentation) that less than a 72-hour interval is representative of local storm events during the sampling period.

** Observe for settled solids after allowing the sample to sit for approximately one-half hour.

Detail any concerns, additional comments, descriptions of pictures taken, and any corrective actions taken below (attach additional sheets as necessary).

Certification by Facility Responsible Official (Refer to MSGP Subpart 11 Appendix B for Signatory Requirements)

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

A. Name: Hector Avila

B. Title: Environmental Coordinator

C. Signature: 

D. Date Signed: 10/18/16

MSGP Quarterly Visual Assessment Form — Worksheet No. 6

(Complete a separate form for each outfall you assess)

Name of Facility: **AES Puerto Rico, L.P.** NPDES Tracking No. PRR053093

Outfall Name: **001** "Substantially Identical Outfall"? ☒ No ☐ Yes

Person(s)/Title(s) collecting sample: **Hector Avila**

Person(s)/Title(s) examining sample: **Hector Avila / Environmental Coordinator**

Date & Time Discharge Began: **(10/19/16 1:15 pm)** Date & Time Sample Collected: **(10/19/16 1:20 pm)** Date & Time Sample Examined: **(10/19/16 2:00 pm)**

Substitute Sample? ☒ No ☐ Yes (identify quarter/year when sample was originally scheduled to be collected):

Nature of Discharge: ☒ Rainfall ☐ Snowmelt

If rainfall: Rainfall Amount: **0.92 inches** Previous Storm Ended > 72 hours Before Start of This Storm? ☐ Yes ☒ No*

Parameter

Color ☒ None ☐ Other (describe):

Odor ☒ None ☐ Musty ☐ Sewage ☐ Sulfur ☐ Sour ☐ Petroleum/Gas _____
☐ Solvents ☐ Other (describe):

Clarity ☒ Clear ☐ Slightly Cloudy ☐ Cloudy ☐ Opaque ☐ Other

Floating Solids ☒ No ☐ Yes (describe):

Settled Solids** ☒ No ☐ Yes (describe):

Suspended Solids ☒ No ☐ Yes (describe):

Foam (gently shake sample) ☒ No ☐ Yes (describe):

Oil Sheen ☒ None ☐ Flecks ☐ Globs ☐ Sheen ☐ Slick
☐ Other (describe):

Other Obvious Indicators of Stormwater Pollution ☒ No ☐ Yes (describe):

Sampling not performed due to no measurable storm event occurring that resulted in a discharge during the monitoring quarter:

☒ No ☐ Yes (describe):

* The 72-hour interval can be waived when the previous storm did not yield a measurable discharge or if you are able to document (attach applicable documentation) that less than a 72-hour interval is representative of local storm events during the sampling period.

** Observe for settled solids after allowing the sample to sit for approximately one-half hour.

Detail any concerns, additional comments, descriptions of pictures taken, and any corrective actions taken below (attach additional sheets as necessary).

Certification by Facility Responsible Official (Refer to MSGP Subpart 11 Appendix B for Signatory Requirements)

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

A. Name: Hector Avila

B. Title: Environmental Coordinator

C. Signature: 

D. Date Signed: 10/19/16

MSGP Quarterly Visual Assessment Form — Worksheet No. 6

(Complete a separate form for each outfall you assess)

Name of Facility: **AES Puerto Rico, L.P.** NPDES Tracking No. PRR053093

Outfall Name: **002** "Substantially Identical Outfall"? ☒ No ☐ Yes

Person(s)/Title(s) collecting sample: **Hector Avila**

Person(s)/Title(s) examining sample: **Hector Avila / Environmental Coordinator**

Date & Time Discharge Began: **10/18/16 (11:44 am)** Date & Time Sample Collected: **10/18/16 (11:49 am)** Date & Time Sample Examined: **10/18/16 (12:30 pm)**

Substitute Sample? ☒ No ☐ Yes (identify quarter/year when sample was originally scheduled to be collected):

Nature of Discharge: ☒ Rainfall ☐ Snowmelt

If rainfall: Rainfall Amount: **2.09 inches** Previous Storm Ended > 72 hours Before Start of This Storm? ☒ Yes ☐ No*

Parameter

Color ☒ None ☐ Other (describe):

Odor ☒ None ☐ Musty ☐ Sewage ☐ Sulfur ☐ Sour ☐ Petroleum/Gas _____ ☐ Solvents ☐ Other (describe):

Clarity ☒ Clear ☐ Slightly Cloudy ☐ Cloudy ☐ Opaque ☐ Other

Floating Solids ☒ No ☐ Yes (describe):

Settled Solids** ☒ No ☐ Yes (Soil erosion from uncovered areas at the curved rip rap and public dirty road were observed. Grating inlet protection "drain guards" must be replaced. (These BMPs will be repaired as a Corrective Action.)

Suspended Solids ☒ No ☐ Yes (describe):

Foam (gently shake sample) ☒ No ☐ Yes (describe):

Oil Sheen ☒ None ☐ Flecks ☐ Globs ☐ Sheen ☐ Slick ☐ Other (describe):

Other Obvious Indicators of Stormwater Pollution ☒ No ☐ Yes (describe):

Sampling not performed due to no measurable storm event occurring that resulted in a discharge during the monitoring quarter:

☒ No ☐ Yes (describe):

* The 72-hour interval can be waived when the previous storm did not yield a measurable discharge or if you are able to document (attach applicable documentation) that less than a 72-hour interval is representative of local storm events during the sampling period.

** Observe for settled solids after allowing the sample to sit for approximately one-half hour.

Detail any concerns, additional comments, descriptions of pictures taken, and any corrective actions taken below (attach additional sheets as necessary).

Certification by Facility Responsible Official (Refer to MSGP Subpart 11 Appendix B for Signatory Requirements)

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

A. Name: Hector Avila

B. Title: Environmental Coordinator

C. Signature:

D. Date Signed: 10/18/16

AES
Puerto Rico

Corrective Action Documentation

Instructions:

Within 24 hours of becoming aware of a condition identified in Parts 4.1 or 4.2 of the 2015 MSGP, document the existence of the condition and subsequent actions. Note that this information must be summarized in the annual report (as required in Part 7.5 of the 2015 MSGP).

Corrective Action #1

Description of Condition: A water leakage from unit 2 cooling tower circulating piping system was identified.

Date: December 28, 2016

Immediate Actions: A work notification was generated in order to coordinate piping reparation. Two submergible pumps were immediately installed in order recirculate the water back into the cooling tower basin and no process water was discharged.

Actions Taken within 14 Days: Unit 2 went offline on December 31, 2016 and started pipe leak reparation.

14 Day Infeasibility:

45 Day Extension: N/A

Date Completed: January 02, 2017

Corrective Action #2

Description of Condition: At sampling point 001 (dock area), the average of the four monitoring values for aluminum slightly exceeds the benchmark. Stormwater visual inspection and monitoring were performed on October 19, 2016.

Immediate Actions: The MH personnel were informed about the problem and coordinate corrective actions immediately.

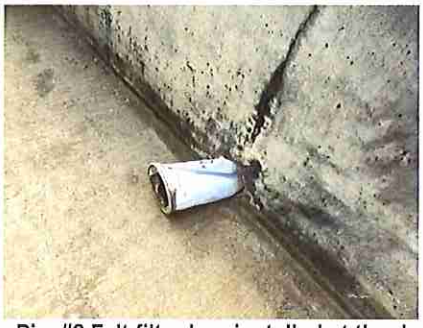
Actions Taken within 14 Days: Felt filter bags were installed in all storm water inlets at the dock area. Filtration felt is a low cost disposable media with particle retention from 1 to 200 microns. It has depth filtration qualities and high solids loading capacity.

14 Day Infeasibility: N/A

45 Day Extension: N/A

Date Completed: October 20, 2016

Pic. #1: Felt Filter Bag



Pic. #2 Felt filter bag installed at the dock area.

Pic. #3 Felt filter bag installed at the dock area storm water collection system.